The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A single use medical imaging device that is removably connected to a control unit, comprising:

a shaft having a proximal end and a distal end,

a connector on the proximal end for connecting the device to a control unit;

an image sensor at or adjacent to the distal end of the device for producing images in a predefined format for receipt by an imaging board within the control unit;

a memory having a code stored therein that encodes a serial identifier uniquely associated with the imaging device; and

a transmit circuit that transmits the code to the imaging board in the format of the image signals produced by the image sensor.

- 2. The imaging device of Claim 1 wherein the memory is coupled to the image sensor.
- 3. The imaging device of Claim 1 wherein the memory is integrated within the image sensor.
- 4. The imaging device of Claim 1 wherein the code is embedded in an image of a verification object that is stored within the memory.
- 5. The imaging device of Claim 4 wherein the image of the verification object includes an image of a linear bar code.
- 6. The imaging device of Claim 4 wherein the image of the verification object includes an image of a two-dimensional bar code.
- 7. The imaging device of Claim 4 wherein the verification object image further includes a set of calibration objects.
- 8. A control unit for authorizing a single use medical imaging device comprising:

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a connector for connecting the control unit to the single use medical imaging device;

a device interface capable of receiving a code in a format of an image signal produced by the image sensor within the medical imaging device, wherein the code encodes a serial identifier uniquely associated with the imaging device;

a processor that decodes the serial identifier from the image signal; and means for determining if the single use imaging device is authorized based upon the serial identifier associated with the device.

- 9. The control unit of Claim 8, wherein the code is embedded in an image of a verification object.
- 10. The control unit of Claim 8, wherein the verification object further comprises one or more patterns to calibrate the single use imaging device.
- 11. The control unit of Claim 8, wherein the verification object further comprises one or more patterns to functionally test the single use imaging device.
 - 12. A medical imaging system comprising:
- a single use medical imaging device, having a shaft with a proximal end and a distal end;
 - a connector on the proximal end for connecting the device to a control unit;
- an image sensor at or adjacent to the distal end for producing images in a predefined format for receipt by an imaging board within the control unit;
- an image of a verification object encoding a serial identifier uniquely associated with the device;
- a transmit circuit that transmits the image of the verification object to a control unit in the predefined format of the image signals produced by the image sensor;
 - a control unit for authorizing a single use medical imaging device including:
- a connector for connecting the control unit to a single use medical imaging device;
- a device interface capable of receiving an image of the verification object in the predefined format of an image signal produced by the image sensor of the medical imaging device;

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a processor that determines if the single use imaging device is authorized based upon the serial identifier associated with the device.

- 13. The system of Claim 12, wherein the image of the verification object image is stored in the memory of the single use device.
- 14. The system of Claim 12, wherein the verification object is printed on a test target uniquely associated with the single use device at the time of manufacture.
- 15. The system of Claim 12, wherein the means for determining if the imaging device is authorized compares the serial identifier to a registry contained in a remote database accessible from the control unit to determine if the device associated with the unique identifier has ever been used before.
- 16. The medical imaging system of Claim 12 wherein the verification object image includes a linear bar code.
- 17. The medical imaging system of Claim 12 wherein the verification object image includes a two-dimensional bar code.
- 18. The medical imaging system of Claim 12 wherein the verification object image further includes a set of calibration objects.
- 19. The medical imaging system of Claim 18 wherein the calibration objects are printed on a test target at various deflection angles.
 - 20. A method for authorizing a single use imaging device comprising: connecting the single use imaging device to a control unit;
- electronically obtaining an image of a prerecorded verification object associated with the imaging device wherein the verification object image encodes a serial identifier;

extracting the serial identifier from the image of the verification object; and authorizing the use of the imaging device by comparing the serial identifier to a database containing information on authorized serial identifiers, wherein a match between the serial identifier and information in the database results in authorization for use.

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- 21. The method of Claim 20 wherein the image of the prerecorded verification object is obtained using the electronic imaging element of the imaging device.
- 22. The method of Claim 20 wherein the prerecorded verification object is printed on a test target uniquely associated with the device at the time of manufacture.
- 23. The method of Claim 20 wherein the database is a registry at a remote central server.
- 24. The method of Claim 20 wherein the verification object encodes a unique serial identifier and a set of calibration objects.
- 25. The method of Claim 24 wherein the calibration objects are printed on a test target at various deflection angles.
- 26. A method of automatically authorizing and self-testing a medical device containing an image element comprising the steps of:

recognizing the medical device as authorized based upon electronic detection of an image of a prerecorded verification object;

automatically calibrating the device using calibrating features included in the verification object;

functionally testing the device; and

activating the device upon successful authorization, calibration and functional testing.

- 27. The method of Claim 26, wherein a registry records the results of the calibration and functional testing of the medical device.
- 28. A method of serializing a set of single use imaging devices comprising: assigning a unique serial identifier to each imaging device to be manufactured; encoding the serial identifier in a verification object, wherein the verification object also includes a set of calibration objects;

associating the verification object with each corresponding imaging device at the time of manufacture; and

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maintaining a registry of authorized serial identifiers corresponding to manufactured serialized imaging devices wherein a user of an imaging device may determine if the device is authorized by comparing the serial identifier to the database.

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